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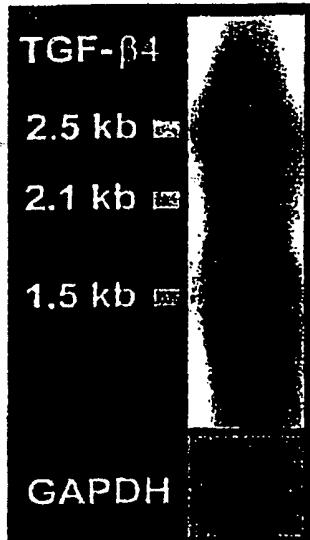
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(54) Title: DIAGNOSTIC MARKERS OF HUMAN FEMALE INFERTILITY

(57) Abstract

There is provided a method for diagnosing endometrial irregularities particularly infertility by screening an endometrial sample or bodily fluid for the presence of ebaF. Also provided is a diagnostic tool for determining the presence of endometrial irregularities screens a sample for the presence of ebaF. A contraceptive containing an effective amount of ebaF and a pharmaceutically acceptable carrier is also provided. Additionally, a diagnostic kit for timing conception is provided having a screening tool for screening a sample for the present of ebaF. Also provided is a method of treating endometrial irregularities by down-regulating the expression of ebaF.



102 Rec'd PCT/US 30 OCT 2000

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DIAGNOSTIC MARKERS OF HUMAN FEMALE INFERTILITY

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CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a conversion of a United States Provisional Application filed April 29, 1998, Serial No. 60/083,418. Continuation in Part of application Serial No. 08/919,421 filed 8/27/97 which claims benefit of US Provisional Application No. 60/025,800 filed August 27, 1996.

10

GOVERNMENT SUPPORT

This invention was made with Government support under Grant Number (s) CA46866 awarded by the National Institutes of Health (NIH) and HD 35041 and HD 34824 from the National Cooperative Program on Markers of Uterine receptivity for Blastocyst Implantation. The Government has certain rights in the invention.

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BACKGROUND OF THE INVENTION

FIELD OF THE INVENTION

The present invention relates to diagnostic and prognostic markers of endometrial irregularities, particularly infertility. More specifically, the present invention relates to diagnostic markers which can be used in treatment of infertility, kits for timing conception, contraception, and for treatment of excessive bleeding conditions.

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BACKGROUND ART

Human endometrium is a unique tissue that undergoes sequential phases of proliferation, secretory changes, tissue shedding and bleeding during menstruation. After ovulation, during a defined period designated as